Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Devon Energy Production Company, L.P.
Well Name/Number: Brewer-DIR 22-15
Location: SE SE Section 22 T26N R17E
County: Blaine , MT; Field (or Wildcat) W/C
Air Quality
(possible concerns)
Long drilling time: No, 3 to 4 days_
Unusually deep drilling (high horsepower rig): No, 2500' TVD/2700'MD using a small
single derrick drilling rig.
Possible H2S gas production: None anticipated.
In/near Class I air quality area: No Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
<u>under rule 75-2-211.</u>
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements Other:
Comments: No special concerns – using small rig to drill to 2500'TVD/2700'MD.
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Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater and freshwater mud system.
High water table: No high water table anticipated.
Surface drainage leads to live water: No, closest drainage is unnamed ephemeral
tributary drainage to Sand Creek, about 1/32 of a mile to the west from this location.
Water well contamination: None, closest water well is over 1 mile to the southwest from
this location. This gas well test will drill surface hole with freshwater to a depth of about
150' and will set steel surface casing at 150' and cement to surface to protect shallow
groundwaters. Porous/permeable soils: No, sandy silty bentonitic soils.
Class I stream drainage: No Class I stream drainages in the area.
Mitigation:
Lined reserve pit
X Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments:150' of surface casing cemented to surface adequate to protect
freshwater zones. If productive, 4 1/2" casings will be run, casing will be cemented to
surface. Also, fresh water mud systems to be used.
Soils/Vegetation/Land Use

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(possible concerns)

Steam crossings: No stream crossings anticipated, only ephemeral drainages.
High erosion potential: No, moderate cut, up to 18.0' and small fill, up to 5.0, required.
Loss of soil productivity: No, location will be restored after drilling, in nonproductive. If
productive unused portion of drillsite will be reclaimed
Unusually large wellsite: No. 250'X250' location size required.
Damage to improvements: Slight, surface use is grass land.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X_Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
X Other: Requires DEQ General Permit for Storm Water Discharge Associated
with Construction Activity, under ARM 17.30.1102(28).
Comments: Access will be over existing county road, Sand Creek Road. About 3/4
of a mile of new access will be created to access this location off an existing trail.
Cuttings will be disposed of in the unlined earthen pits. Drilling fluids will be trucked to
nearby stock pond and disposed of with surface owner approval. Pit will be allowed to
dry then backfilled. No special concerns
Health Hemanda Misica
Health Hazards/Noise
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(possible concerns)
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Other agency review (DFWP, federal agencies, DSL) Screening/fencing of pits, drillsite
Other:
Comments: Private surface lands not adjacent to live water. No concerns.
Historical/Cultural/Paleontological
(possible concerns) Proximity to known sites None identified.
Mitigation
avoidance (topographic tolerance, location exception)other agency review (SHPO, DSL, federal agencies)Other:
Comments: Private surface lands. No concerns.
Social/Economic
(possible concerns) Substantial effect on tax base Create demand for new governmental services Population increase or relocation Comments: No concerns
Remarks or Special Concerns for this site
Well is a 2500'TVD/2700' MD Eagle Formation test south side of Bear Paw Mountains
Summary: Evaluation of Impacts and Cumulative effects
No, long term impacts expected, some short term impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC):_/s/ Steven Sasaki(title:) Chief Field Inspector Date: _May 18, 2010
Other Persons Contacted:

<u>Montana Bureau of Mines and Geology, GWIC</u>
website.
(Name and Agency)
Blaine County water wells
(subject discussed)
May 18, 2010
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Blaine County
(subject discussed)
May 18, 2010
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: